SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG <u>(05I-4491-02)</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete

Partial

300 Area 333 Bldg







Cover Page

Report Identification Number: 05I-4491-02

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM

SAF#:

RC-001 / H300XX J451

Payroll#:

73337



Web Page: www.datachem.com

E-mail: lab@datachem.com

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
27 Oct 2005	J10BN2 - A	05I42398	NMAM 7300M	G05B9008	MCE
27 Oct 2005	J10BJ1 - A	05I42399	NMAM 7300M	G05B9008	MCE
27 Oct 2005	J10BJ0 - A	05I42400	NMAM 7300M	G05B9008	MCE
27 Oct 2005	J10BN3 - A	05I42401	NMAM 7300M	G05B9008	MCE

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FAX: (801) 268-9992

Name: Lisa M. Reid Title: Chemist

Date: November 11, 2005





Case Narrative Page

Report Identification Number: 05I-4491-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / H300XX J451

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General Set Information: There are 4 samples in set 05I-4491-02 that were analyzed for cadmium on MCE filter. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

<u>Initial and Continuing Calibration Verification Analysis:</u> Cadmium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of ± 10%.

Initial and Continuing Calibration Blank Analysis: No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.06 ug/sample.

Method Blank Analysis: No cadmium was found in the media blank sample above the Contract Required Detection Limit (CRDL). No lead was found in the media blank sample above the Contract Required Detection Limit (CRDL).

Dilution(s): NA.

Laboratory Control Sample and Duplicate Analysis: These samples were relogged for cadmium analysis after beryllium analysis was completed. The LCS/LCSD samples were not reanalyzed. The beryllium LCS/LCSD recoveries were within the control limits of 20%.

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Case Narrative Page

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate were within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu g/L$)

B = Concentration factor from sample preparation

= <u>Final Volume of Digestate (L)</u>

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

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Miscellaneous Comments: None.





Report Page

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Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / H300XX J451

Payroll#: 73337

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Cadmiun µg/sampl		Cadmium μg/m³	Air Volume L
J10BN2	05I42398	10 Nov 2005	< 0.06	U	**	0.
J10BJ1	05I42399	10 Nov 2005	< 0.06	U	**	0.
J10BJ0	05142400	10 Nov 2005	< 0.06	U	<0.20	302.
J10BN3	05I42401	10 Nov 2005	< 0.06	U	<0.21	287.
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R						

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

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Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / H300XX J451

Payroll#:

73337

Batch ID: G05B9008

								Relative
	QC				Parent		Percent	Percent
QC Sample ID	Type	Analyte	Units	Result	Result	Target	Rec.	Diff.

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MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

Washin Closure	ptol
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051.4491.01

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST															
Collector:	Warne-		Company Contact Denise A. Pitts and Henry W. Ruby			Telephone No. 531-1229			Project Coordinator Joan H. Kessner				Data Turnaround		
Payroll #: 7 3 3 5 7						All relevant COAs must be provided:			SAF No. RC-001			24 hrs.			
Type of Sample:			KJoox'						Method of Shipment Federal Express						
Shipped To: Detacle - Sait Lela City UT		Wipe Sampl Ghost C	Yes No		1	Mash 7300 ac			Bill of Lading/Air Bill No. 854193375237						
POSSIBLE SAMPLE I Ba		A - AIF	MATRIX A - AIR Preservator WI - WIPE requir X - OTHER		n (i.e., cooling	No	No	No		No	No				
Special Handling and	시 A Vot Storage	X - OT			or or.1	140			140		100				
		SAMPLE ANALY	sis			Asbestos	Lead	Berviliu		Beryilium					
Sample no.	MATRIX	SAMPLE DATE	VOLUME (L)		Comments	Airborne	Airborne	Airbon		Wipe	Mold				
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J108N3"_	A A	10/27/05	287	pus	المد			X					01		
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WCH-SH-202 (08/29/2005)

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COC Page

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	CHAIN OF CUSTODY/SA	MPLE ANALY	YSIS REQUEST
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SECTION			
			
REVIEWED BY:	201600 VC-000-		DATE: \\-\-D
	PRINT/SIGN NAME	<u> </u>	

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